CUMULATIVE INDEXES

CONTRIBUTING AUTHORS
VOLUMES 42-46

A

Acs, G., 45:375-408
Adler, J., 44:341-56
Alberts, B. M., 45:721-46
Alworth, W. L., 43:889-922
Anderson, W. B., 44:491-522
Avron, M., 46:143-55

B

Baldwin, R. L., 44:453-75
Baltscheffsky, H., 43:871-97
Baltscheffsky, M., 43:871-97
Baltz, R. H., 45:11-37
Barden, R. E., 46:385-413
Barenholz, Y., 42:61-90
Barondes, S. H., 43:147-68
Beadle, G. W., 43:1-13
Benveniste, R., 42:471-506
Bernhardt, J., 46:117-41
Beytía, E. D., 45:113-42
Billeter, M. A., 42:303-28
Bisswanger, H., 45:143-66
Bleich, H., 44:477-90
Bloch, K., 46:263-98
Boos, W., 42:123-46
Borisy, G. G., 42:507-40
Bornstein, P., 43:567-603
Boyer, P. D., 46:957-66
Braun, A., 44:19-43
Braun, V., 43:89-121
Brawerman, G., 43:621-42
Brown, D. D., 43:667-93
Brown, M. S., 46:897-930
Bruice, T. C., 45:331-73
Burger, M. M., 42:647-82
Burris, R. H., 45:409-25

C

Cantoni, G. L., 44;435-51
Carlson, S. S., 46:573-639
Casida, J. E., 42:259-78
Casjens, S., 44:555-611
Chamberlin, M. J., 43:721-75
Chambon, P., 44:613-38
Chance, B., 46:967-80
Chargaff, E., 44:1-18
Christman, J. K., 45:375-408
Clarke, M., 46:797-822
Cohen, G. N., 42:113-34
Cohn, Z. A., 46:669-722
Cormier, M. J., 44:255-72
Cowburn, D., 44:477-90
Cozzarelli, N. R., 46:641-68
Craig, L. C., 44:477-90
Crane, F. L., 46:439-69
Crowther, R. A., 44:161-82
Cuatrecasas, P., 43:169-214
Czech, M. P., 46:359-84

D

Dahl, J. L., 43:327-56
Danielsson, H., 44:233-53
Davie, E. W., 44:799-829
Davies, D. R., 44:639-67
Davies, J., 42:471-506
Davoli, D., 46:471-522
de Harven, E., 43:279-301
DeLuca, H. F., 45:631-66
Dempsey, M. E., 43:967-90
DePierre, J. W., 46:201-62
Dice, J. F., 43:835-69
Doisy, E. A., 45:1-9
Drake, J. W., 45:11-37

E

Edelstein, S. J., 44:209-32
Elgin, S. C. R., 44:725-74
Erlanger, B. F., 45:267-83
Ernster, L., 46:201-62; 981-95

F

Fareed, G. C., 46:471-522
Feldberg, R., 44:19-43
Felig, P., 44:933-55
Fillingame, R. H., 43:303-25
Fitch, W. M., 43:539-66
Flamm, W. G., 42:683-708
Fox, C. F., 42:575-600
Fridkin, M., 43:419-43
Fridovich, I., 44:147-59
Fry, M., 44:775-97
Fujikawa, K., 44:799-829
Fulco, A. J., 43:215-41
Furthmayr, H., 45:667-98

G

Gaber, B. P., 46:553-72
Gatt, S., 42:61-90
Gefter, M. L., 44:45-78
Glaser, L., 42:91-112
Goldberg, A. L., 43:835-69; 45:747-803
Goldberg, N. D., 46:823-96
Goldstein, J. L., 46:897-930
Gooday, G. W., 43:35-49
Goodman, H. M., 42:303-28
Goody, R. S., 45:427-65
Gospodarowicz, D., 45:531-58
Gotto, A. M. Jr., 44:183-207
Granström, E., 44:669-95
Green, K., 44:669-95
Grossman, L., 44:19-43
Gunsalus, I. C., 44:377-407

H

Haddox, M. K., 46:823-96
Hamberg, M., 44:669-95
Hamkalo, B. A., 42:379-96
Hammarström, S., 44:669-95
Hanson, K. R., 45:307-30
Hantke, K., 43:89-121
Haschemeyer, R. H., 43:279-301
Haselkorn, R., 42:397-438
Hayaishi, O., 46:95-116
Heidelberger, C., 44:79-121
Hers, H. G., 45:167-89
Hershko, M., 44:775-97
Hindley, J., 42:303-28
Hokin, L. E., 43:327-56
Huberman, J. A., 42:355-78

I

Inman, R. B., 43:605-19
Inouye, H., 42:439-70

J

Jackson, R. L., 44:183-207
Jensen, L. H., 43:461-74
Johnson, G. S., 44:491-522
Jovin, T. M., 45:889-920

K

Kasamatsu, H., 43:695-719
King, J., 44:555-611
Kinsky, S. C., 46:49-67
Kirkwood, S., 43:401-17

CUMULATIVE INDEXES

CONTRIBUTING AUTHORS
VOLUMES 42-46

A

Acs, G., 45:375-408
Adler, J., 44:341-56
Alberts, B. M., 45:721-46
Alworth, W. L., 43:889-922
Anderson, W. B., 44:491-522
Avron, M., 46:143-55

B

Baldwin, R. L., 44:453-75
Baltscheffsky, H., 43:871-97
Baltscheffsky, M., 43:871-97
Baltz, R. H., 45:11-37
Barden, R. E., 46:385-413
Barenholz, Y., 42:61-90
Barondes, S. H., 43:147-68
Beadle, G. W., 43:1-13
Benveniste, R., 42:471-506
Bernhardt, J., 46:117-41
Beytía, E. D., 45:113-42
Billeter, M. A., 42:303-28
Bisswanger, H., 45:143-66
Bleich, H., 44:477-90
Bloch, K., 46:263-98
Boos, W., 42:123-46
Borisy, G. G., 42:507-40
Bornstein, P., 43:567-603
Boyer, P. D., 46:957-66
Braun, A., 44:19-43
Braun, V., 43:89-121
Brawerman, G., 43:621-42
Brown, D. D., 43:667-93
Brown, M. S., 46:897-930
Bruice, T. C., 45:331-73
Burger, M. M., 42:647-82
Burris, R. H., 45:409-25

C

Cantoni, G. L., 44;435-51
Carlson, S. S., 46:573-639
Casida, J. E., 42:259-78
Casjens, S., 44:555-611
Chamberlin, M. J., 43:721-75
Chambon, P., 44:613-38
Chance, B., 46:967-80
Chargaff, E., 44:1-18
Christman, J. K., 45:375-408
Clarke, M., 46:797-822
Cohen, G. N., 42:113-34
Cohn, Z. A., 46:669-722
Cormier, M. J., 44:255-72
Cowburn, D., 44:477-90
Cozzarelli, N. R., 46:641-68
Craig, L. C., 44:477-90
Crane, F. L., 46:439-69
Crowther, R. A., 44:161-82
Cuatrecasas, P., 43:169-214
Czech, M. P., 46:359-84

D

Dahl, J. L., 43:327-56
Danielsson, H., 44:233-53
Davie, E. W., 44:799-829
Davies, D. R., 44:639-67
Davies, J., 42:471-506
Davoli, D., 46:471-522
de Harven, E., 43:279-301
DeLuca, H. F., 45:631-66
Dempsey, M. E., 43:967-90
DePierre, J. W., 46:201-62
Dice, J. F., 43:835-69
Doisy, E. A., 45:1-9
Drake, J. W., 45:11-37

E

Edelstein, S. J., 44:209-32
Elgin, S. C. R., 44:725-74
Erlanger, B. F., 45:267-83
Ernster, L., 46:201-62; 981-95

F

Fareed, G. C., 46:471-522
Feldberg, R., 44:19-43
Felig, P., 44:933-55
Fillingame, R. H., 43:303-25
Fitch, W. M., 43:539-66
Flamm, W. G., 42:683-708
Fox, C. F., 42:575-600
Fridkin, M., 43:419-43
Fridovich, I., 44:147-59
Fry, M., 44:775-97
Fujikawa, K., 44:799-829
Fulco, A. J., 43:215-41
Furthmayr, H., 45:667-98

G

Gaber, B. P., 46:553-72
Gatt, S., 42:61-90
Gefter, M. L., 44:45-78
Glaser, L., 42:91-112
Goldberg, A. L., 43:835-69; 45:747-803
Goldberg, N. D., 46:823-96
Goldstein, J. L., 46:897-930
Gooday, G. W., 43:35-49
Goodman, H. M., 42:303-28
Goody, R. S., 45:427-65
Gospodarowicz, D., 45:531-58
Gotto, A. M. Jr., 44:183-207
Granström, E., 44:669-95
Green, K., 44:669-95
Grossman, L., 44:19-43
Gunsalus, I. C., 44:377-407

H

Haddox, M. K., 46:823-96
Hamberg, M., 44:669-95
Hamkalo, B. A., 42:379-96
Hammarström, S., 44:669-95
Hanson, K. R., 45:307-30
Hantke, K., 43:89-121
Haschemeyer, R. H., 43:279-301
Haselkorn, R., 42:397-438
Hayaishi, O., 46:95-116
Heidelberger, C., 44:79-121
Hers, H. G., 45:167-89
Hershko, M., 44:775-97
Hindley, J., 42:303-28
Hokin, L. E., 43:327-56
Huberman, J. A., 42:355-78

I

Inman, R. B., 43:605-19
Inouye, H., 42:439-70

J

Jackson, R. L., 44:183-207
Jensen, L. H., 43:461-74
Johnson, G. S., 44:491-522
Jovin, T. M., 45:889-920

K

Kasamatsu, H., 43:695-719
King, J., 44:555-611
Kinsky, S. C., 46:49-67
Kirkwood, S., 43:401-17

Kirsch, J. F., 42:205-34
Kirschner, K., 45:143-66
Klug, A., 44:161-82
Kok, B., 44:409-33
Kornberg, R. D., 46:931-54
Kornfeld, R., 45:217-37
Kornfeld, S., 45:217-37
Kraut, J., 46:331-58
Kretsinger, R. H., 45:239-66
Kurahashi, K., 43:445-59
Kurland, C. G., 46:173-200

L

Lee, J., 44:255-72
Legator, M. S., 42:683-708
Lennarz, W. J., 45:95-112
Liljas, A., 43:475-507
Lim, T. W., 44:357-76
Lin, E. C. C., 46:765-95
Lis, H., 42:541-74
Littauer, U. Z., 42:439-70
Lodish, H. F., 45:39-72

M

Machtiger, N. A., 42:575-600
Mahler, I., 44:19-43
Mannherz, H. G., 45:427-65
Marchesi, V. T., 45:667-98
Margoliash, E., 43:539-66
Mason, T. L., 43:51-87
McIntosh, J. R., 45:699-720
McRorie, R. A., 43:777-803
Meister, A., 45:559-604
Mildvan, A. S., 43:357-99
Miller, O. L. Jr., 42:379-96
Mitchell, P., 46:996-1005
Mooser, G., 44:889-931
Moran, J. S., 45:531-58
Morris, D. R., 43:303-25
Morris, P. W., 42:601-46
Morrisett, J. D., 44:183-207
Morrison, M., 45:861-88
Müller-Eberhard, H. J., 44:697-724

N

Nathans, D., 44:273-93
Neufeld, E. F., 44:357-76
Neumann, E., 46:117-41
Nicolotti, R. A., 46:49-67

O

Ochoa, S., 45:191-216
Olmsted, J. B., 42:507-40
Orme-Johnson, W. H., 42:159-204
Oseroff, A. R., 42:647-82

P

Padlan, E. A., 44:639-67
Pappenheimer, A. M. Jr., 46:69-94
Pastan, I. H., 44:491-522
Patchornik, A., 43:419-43
Pederson, T. C., 44:377-407
Perry, R. P., 45:605-29
Peters, K., 46:523-51
Pictet, R. L., 42:601-46
Plaut, G. W. E., 43:899-922
Porter, J. W., 45:113-42
Postma, P. W., 44:523-54
Pressman, B. C., 45:501-30

R

Racker, E., 46:1006-14
Radmer, R., 44:409-33
RajBhandary, U. L., 45:805-60
Ratner, S., 46:1-24
Rich, A., 45:805-60
Richards, F. M., 46:523-51
Ristow, S., 42:135-58
Robbins, P. W., 42:647-82
Rosen, O. M., 44:831-87
Rosenthal, K. S., 46:723-63
Rossmann, M. G., 43:475-507
Rothman-Denes, L. B., 42:397-438
Rubin, C. S., 44:831-87
Rutter, W. J., 42:601-46
Růzička, L., 42:1-20

S

St. John, A. C., 45:747-803
Salemme, F. R., 46:299-329
Salser, W. A., 43:923-65
Samuelsson, B., 44:669-95
Schatz, G., 43:51-87
Schnoes, H. K., 45:631-66
Schonbaum, G. R., 45:861-88
Segal, D. M., 44:639-67
Shapiro, L. J., 44:357-76
Sharon, N., 42:541-74
Shatkin, A. J., 43:643-65
Sigman, D. S., 44:889-931
Silbert, D. F., 44:315-39
Silverstein, S. C., 45:375-408; 46:669-722
Simoni, R. D., 44:523-54
Singer, S. J., 43:805-33
Sinsheimer, R. L., 46:415-38
Sjövall, J., 44:233-53
Slater, E. C., 46:1015-26
Sligar, S. G., 44:377-407
Smith, C. M., 43:899-922
Smith, H. O., 44:273-93
Snyder, J. A., 45:699-720
Soffer, R. L., 45:73-94
Spiro, T. G., 46:553-72
Spudich, J. A., 46:797-822
Steiner, D. F., 43:509-38
Steinman, R. M., 46:669-722
Stenflo, J., 46:157-72
Stern, R., 43:667-93
Storm, D. R., 46:723-63
Streicher, S. L., 42:279-302
Suttie, J. W., 46:157-72
Swanson, P. E., 46:723-63

T

Tabor, C. W., 45:285-306
Tabor, H., 45:285-306
Tager, H. S., 43:509-38
Takemori, A. E., 43:15-33
Tate, S. S., 45:559-604
Tomita, M., 45:667-98
Truffa-Bachi, P., 42:113-34
Tu, A. T., 42:235-58

U

Ueda, K., 46:95-116

V

Vagelos, P. R., 42:21-60
Valentine, R. C., 42:279-302
Vance, D., 46:263-98
van den Bosch, H., 43:243-77
Villarejo, M. R., 44:295-313
Vinograd, J., 43:695-719
Volpe, J. J., 42:21-60

W

Waechter, C. J., 45:95-112
Wampler, J. E., 44:255-72
Weber, H., 42:303-28
Weinberg, R. A., 42:329-54
Weintraub, H., 44:725-74
Weissbach, A., 46:25-47
Weissbach, H., 45:191-216
Weissman, C., 42:303-28
Wetlaufer, D. B., 42:135-58
White, T. J., 46:573-639
Williams, W. L., 43:777-803
Williamson, A. R., 45:467-500
Wilson, A. C., 46:573-639
Winter, H. C., 45:409-25
Wood, H. G., 46:385-413
Wu, T. T., 43:539-66

Y

Yamamoto, K. R., 45:721-46
Younghusband, H. B., 43:605-19

Z

Zabin, I., 44:295-313
Zelitch, I., 44:123-45

CHAPTER TITLES

VOLUMES 42-46

AMINO ACIDS, PEPTIDES, AND PROTEINS (see also Hormones and Regulatory Substances)

Biosynthesis

Protein Synthesis	R. Haselkorn, L. B. Rothman-Denes	42:397-438
Biosynthesis of Mitochondrial Proteins	G. Schatz, T. L. Mason	43:51-87
Peptide Synthesis	M. Fridkin, A. Patchornik	43:419-43
Biosynthesis of Small Peptides	K. Kurahashi	43:445-59
The Role of Polyprenol-Linked Sugars in Glycoprotein Synthesis	C. J. Waechter, W. J. Lennarz	45:95-112
Soluble Factors Required for Eukaryotic Protein Synthesis	H. Weissbach, S. Ochoa	45:191-216
Proteins of Contractile Systems	H. G. Mannherz, R. S. Goody	45:427-65
Structure and Function of Cytochromes C	F. R. Salemme	46:299-329

Chemistry

Protein Complementation	I. Zabin, M. R. Villarejo	44:295-313
Intermediates in Protein Folding Reactions and the Mechanism of Protein Folding	R. L. Baldwin	44:453-75
Translational Control of Protein Synthesis	H. F. Lodish	45:39-72

Function

Glutathione and Related γ-Glutamyl Compounds: Biosynthesis and Utilization	A. Meister, S. S. Tate	45:559-604
Molecular Basis of Insulin Action	M. P. Czech	46:359-84

Metabolism

Amino Acid Metabolism	P. Truffa-Bachi, G. N. Cohen	42:113-34
Intracellular Protein Degradation in Mammalian and Bacterial Cells	A. L. Goldberg, J. F. Dice	43:835-69
Amino Acid Metabolism in Man	P. Felig	44:933-55
Intracellular Protein Degradation in Mammalian and Bacterial Cells: Part 2	A. L. Goldberg, A. C. St. John	45:747-803
Biotin Enzymes	H. G. Wood, R. E. Barden	46:385-413

Special Classes

Peptide Hormones	H. S. Tager, D. F. Steiner	43:509-38
Biosynthesis of Collagen	P. Bornstein	43:567-603
Lipoproteins: Structure and Function	J. D. Morrisett, R. L. Jackson, A. M. Gotto Jr.	44:183-207
Cooperative Interactions of Hemoglobin	S. J. Edelstein	44:209-32
Chromosomal Proteins and Chromatin Structure	S. C. R. Elgin, H. Weintraub	44:725-74
Calcium-Binding Proteins	R. H. Kretsinger	45:239-66
Biochemistry and Physiology of Microtubules	J. A. Snyder, J. R. McIntosh	45:699-720
Diphtheria Toxin	A. M. Pappenheimer Jr.	46:69-94
Polymyxin and Related Peptide Antibiotics	D. R. Storm, K. S. Rosenthal, P. E. Swanson	46:723-63

Structure

Acquisition of Three-Dimensional Structure of Proteins	D. B. Wetlaufer, S. Ristow	42:135-58
Iron-Sulfur Proteins: Structure and Function	W. H. Orme-Johnson	42:159-204
X-Ray Structural Studies of Ferredoxin and Related Electron Carriers	L. H. Jensen	43:461-74
X-Ray Studies of Protein Interactions	A. Liljas, M. G. Rossmann	43:475-507
Information Content of Protein Amino Acid Sequences	T. T. Wu, W. M. Fitch, E. Margoliash	43:539-66
Methods for the Study of the Conformation of Small Peptide Hormones and Antibiotics in Solution	L. C. Craig, D. Cowburn, H. Bleich	44:477-90
Post-Translational Cleavage of Polypeptide Chains: Role in Assembly	A. Hershko, M. Fry	44:775-97
Comparative Aspects of Glycoprotein Structure	R. Kornfeld, S. Kornfeld	45:217-37

BILE ACID METABOLISM
Bile Acid Metabolism — H. Danielsson, J. Sjövall — 44:233-53
BIOLUMINESCENCE
Bioluminescence: Recent Advances — M. J. Cormier, J. Lee, J. E. Wampler — 44:255-72
CANCER, CARCINOGENESIS, CARCINOLYSIS
Chemical Carcinogenesis — C. Heidelberger — 44:79-121
CARBOHYDRATES
Chemistry
Bacterial Cell Surface Polysaccharides — L. Glaser — 42:91-112
Unusual Polysaccharides — S. Kirkwood — 43:401-17
Metabolism
The Control of Glycogen Metabolism in the Liver — H. G. Hers — 45:167-89
Glycerol Utilization and Its Regulation in Mammals — E. C. C. Lin — 46:765-95
CELLS, CELL WALLS, AND CELL MEMBRANES
Microtubules — J. B. Olmsted, G. G. Borisy — 42:507-40
The Biochemistry of Plant Lectins (Phytohemagglutinins) — H. Lis, N. Sharon — 42:541-74
Biochemistry of Bacterial Membranes — N. A. Machtiger, C. F. Fox — 42:575-600
The Cell Surface Membrane: Biochemical Aspects and Biophysical Probes — A. R. Oseroff, P. W. Robbins, M. M. Burger — 42:647-82
Biochemistry of Bacterial Cell Envelopes — V. Braun, K. Hantke — 43:89-121
Molecular Organization of Membranes — S. J. Singer — 43:805-33
Genetic Modification of Membrane Lipid — D. F. Silbert — 44:315-39
Growth Factors in Mammalian Cell Culture — D. Gospodarowicz, J. S. Moran — 45:531-58
The Red Cell Membrane — V. T. Marchesi, H. Furthmayr, M. Tomita — 45:667-98
Immunological Properties of Model Membranes — S. C. Kinsky, R. A. Nicolotti — 46:49-67
Physical Chemistry of Excitable Biomembranes — E. Neumann, J. Bernhardt — 46:117-41
Enzyme Topology of Intracellular Membranes — J. W. DePierre, L. Ernster — 46:201-62
Chemical Cross-Linking Reagents and Problems in Studies of Membrane Structure — K. Peters, F. M. Richards — 46:523-51
Endocytosis — S. C. Silverstein, R. M. Steinman, Z. A. Cohn — 46:669-722
Nonmuscle Contractile Proteins: The Role of Actin and Myosin in Cell Motility and Shape Determination — M. Clarke, J. A. Spudich — 46:797-822
DRUGS AND FOREIGN SUBSTANCES
Neurotoxins of Animal Venoms: Snakes — A. T. Tu — 42:235-58
Insecticide Biochemistry — J. E. Casida — 42:259-78
Biochemistry of Drug Dependence — A. E. Takemori — 43:15-33
Diphtheria Toxin — A. M. Pappenheimer Jr. — 46:69-94
ENZYMES (see also Oxidations, Biological)
General
Electron Microscopy of Enzymes — R. H. Haschemeyer, E. de Harven — 43:279-301
Sodium-Potassium Adenosinetriphosphatase — J. L. Dahl, L. E. Hokin — 43:327-56
Superoxide Dismutases — I. Fridovich — 44:147-59
Nitrogenase — H. C. Winter, R. H. Burris — 45:409-26
Recognition Mechanisms of DNA-Specific Enzymes — T. M. Jovin — 45:889-920
Eukaryotic DNA Polymerases — A. Weissbach — 46:25-47
Hydroquinone Dehydrogenases — F. L. Crane — 46:439-69
Mechanism of Enzyme Action, Organization, and Regulation
Iron-Sulfur Proteins: Structure and Function — W. H. Orme-Johnson — 42:159-204
Mechanism of Enzyme Action — J. F. Kirsch — 42:205-34
Regulation of Amino Acid Decarboxylation — D. R. Morris, R. H. Fillingame — 43:303-25
Mechanism of Enzyme Action — A. S. Mildvan — 43:357-99
Chemotaxis in Bacteria — J. Adler — 44:341-56
Oxygenase-Catalyzed Biological Hydroxylations — I. C. Gunsalus, T. C. Pederson, S. G. Sligar — 44:377-407
Basic Mechanisms in Blood Coagulation — E. W. Davie, K. Fujikawa — 44:799-829
Protein Phosphorylation — C. S. Rubin, O. M. Rosen — 44:831-87
Chemical Studies of Enzyme Active Sites — D. S. Sigman, G. Mooser — 44:889-931

Multifunctional Proteins	K. Kirschner, H. Bisswanger	45:143-66
Photoregulation of Biologically Active Macromolecules	B. F. Erlanger	45:267-83
Concepts and Perspectives in Enzyme Stereochemistry	K. R. Hanson	45:307-30
Some Pertinent Aspects of Mechanism as Determined with Small Molecules	T. C. Bruice	45:331-73
Serine Proteases: Structure and Mechanism of Catalysis	J. Kraut	46:331-58
Cyclic GMP Metabolism and Involvement in Biological Regulation	N. D. Goldberg, M. K. Haddox	46:823-96
FERTILIZATION, BIOCHEMISTRY OF		
Biochemistry of Mammalian Fertilization	R. A. McRorie, W. L. Williams	43:777-803
GENETICS, BIOCHEMICAL ASPECTS		
Electronmicroscopy of Genetic Activity	B. A. Hamkalo, O. L. Miller Jr.	42:379-96
Toward Molecular Mechanisms of Developmental Processes	W. J. Rutter, R. L. Pictet, P. W. Morris	42:601-46
Environmental Mutagenesis and Repair	M. S. Legator, W. G. Flamm	42:683-708
Methods of Gene Isolation	D. D. Brown, R. Stern	43:667-93
Inherited Disorders of Lysosomal Metabolism	E. F. Neufeld, T. W. Lim, L. J. Shapiro	44:357-76
The Biochemistry of Mutagenesis	J. W. Drake, R. H. Baltz	45:11-37
Recombinant DNA	R. L. Sinsheimer	46:415-38
Biochemical Evolution	A. C. Wilson, S. S. Carlson, T. J. White	46:573-639
Structure of Chromatin	R. D. Kornberg	46:931-54
HORMONES AND REGULATORY SUBSTANCES		
Fungal Sex Hormones	G. W. Gooday	43:35-49
Peptide Hormones	H. S. Tager, D. F. Steiner	43:509-38
Prostaglandins	B. Samuelsson, E. Granström, K. Green, M. Hamberg, S. Hammarström	44:669-95
Angiotensin-Converting Enzyme and the Regulation of Vasoactive Peptides	R. L. Soffer	45:73-94
IMMUNOCHEMISTRY		
Mechanisms of Antibiotic Resistance in Bacteria	R. Benveniste, J. Davies	42:471-506
Three-Dimensional Structure of Immunoglobulins	D. R. Davies, E. A. Padlan, D. M. Segal	44:639-67
Complement	H. J. Müller-Eberhard	44:697-724
The Biological Origin of Antibody Diversity	A. R. Williamson	45:467-500
Immunological Properties of Model Membranes	S. C. Kinsky, R. A. Nicolotti	46:49-67
INSTRUMENTATION AND ANALYTICAL PROCEDURES		
Electronmicroscopy of Genetic Activity	B. A. Hamkalo, O. L. Miller Jr.	42:379-96
Electron Microscopy of Enzymes	R. H. Haschemeyer, E. de Harven	43:279-301
Electron Microscopy of DNA	H. B. Younghusband, R. B. Inman	43:605-19
Structural Analysis of Macromolecular Assemblies by Image Reconstruction from Electron Micrographs	R. A. Crowther, A. Klug	44:161-82
Laser Raman Scattering As a Probe of Protein Structure	T. G. Spiro, B. P. Gaber	46:553-72
LIPIDS		
Saturated Fatty Acid Biosynthesis and Its Regulation	J. J. Volpe, P. R. Vagelos	42:21-60
Enzymes of Complex Lipid Metabolism	S. Gatt, Y. Barenholz	42:61-90
Metabolic Alterations of Fatty Acids	A. J. Fulco	43:215-41
Phosphoglyceride Metabolism	H. van den Bosch	43:243-77
Regulation of Steroid Biosynthesis	M. E. Dempsey	43:967-90
Genetic Modification of Membrane Lipid	D. F. Silbert	44:315-39
Biochemistry of Polyisoprenoid Biosynthesis	E. D. Beytía, J. W. Porter	45:113-42
Control Mechanisms in the Synthesis of Saturated Fatty Acids	K. Bloch, D. Vance	46:263-98
The Low-Density Lipoprotein Pathway and Its		

Relation to Atherosclerosis	J. L. Goldstein, M. S. Brown	46:897-930
METHYLATION		
Biological Methylation: Selected Aspects	G. L. Cantoni	44:435-51
MITOCHONDRIA, RIBOSOMES		
Biosynthesis of Mitochondrial Proteins	G. Schatz, T. L. Mason	43:51-87
Structure and Function of the Bacterial Ribosome	C. G. Kurland	46:173-200
NEUROCHEMISTRY		
Synaptic Macromolecules: Identification and Metabolism	S. H. Barondes	43:147-68
NITROGEN FIXATION		
Comparative Biochemistry of Nitrogen Fixation	S. L. Streicher, R. C. Valentine	42:279-302
NUCLEIC ACIDS, NUCLEOTIDES, AND NUCLEOSIDES		
Structure and Function of Phage RNA	C. Weissmann, M. A. Billeter, H. M. Goodman, J. Hindley, H. Weber	42:303-28
Nuclear RNA Metabolism	R. A. Weinberg	42:329-54
Structure of Chromosome Fibers and Chromosomes	J. A. Huberman	42:355-78
Electronmicroscopy of Genetic Activity	B. A. Hamkalo, O. L. Miller Jr.	42:379-96
Protein Synthesis	R. Haselkorn, L. B. Rothman-Denes	42:397-438
Regulation of tRNA	U. Z. Littauer, H. Inouye	42:439-70
Electron Microscopy of DNA	H. B. Younghusband, R. B. Inman	43:605-19
Eukaryotic Messenger RNA	G. Brawerman	43:621-42
Animal RNA Viruses: Genome Structure and Function	A. J. Shatkin	43:643-65
Replication of Circular DNA in Eukaryotic Cells	H. Kasamatsu, J. Vinograd	43:695-719
Selectivity of Transcription	M. J. Chamberlin	43:721-75
DNA Sequencing Techniques	W. A. Salser	43:923-65
Enzymatic Repair of DNA	L. Grossman, A. Braun, R. Feldberg, I. Mahler	44:19-43
DNA Replication	M. L. Gefter	44:45-78
Restriction Endonucleases in the Analysis and Restructuring of DNA Molecules	D. Nathans, H. O. Smith	44:273-93
Role of Cyclic Nucleotides in Growth Control	I. H. Pastan, G. S. Johnson, W. B. Anderson	44:491-522
Eukaryotic Nuclear RNA Polymerases	P. Chambon	44:613-38
Processing of RNA	R. P. Perry	56:605-29
Steroid Receptors: Elements for Modulation of Eukaryotic Transcription	K. R. Yamamoto, B. M. Alberts	45:721-46
Transfer RNA: Molecular Structure, Sequence, and Properties	A. Rich, U. L. RajBhandary	45:805-60
Recognition Mechanisms of DNA-Specific Enzymes	T. M. Jovin	45:889-920
Eukaryotic DNA Polymerases	A. Weissbach	46:25-47
Poly(ADP-Ribose) and ADP-Ribosylation of Proteins	O. Hayaishi, K. Ueda	46:95-116
The Mechanism of Action of Inhibitors of DNA Synthesis	N. R. Cozzarelli	46:641-68
NUTRITION		
1, 4-Diaminobutane (Putrescine), Spermidine, and Spermine	C. W. Tabor, H. Tabor	45:285-306
Growth Factors in Mammalian Cell Culture	D. Gospodarowicz, J. S. Moran	45:531-58
OXIDATIONS, BIOLOGICAL (see also Enzymes)		
Electron Transport Phosphorylation	H. Baltscheffsky, M. Baltscheffsky	43:871-97
Peroxidase-Catalyzed Halogenation	M. Morrison, G. R. Schonbaum	45:861-88
Oxidative Phosphorylation and Photophosphorylation	P. D. Boyer, B. Chance, L. Ernster, P. Mitchell, E. Racker, E. C. Slater	46:955-1026
PEPTIDES		
See Amino Acids, Peptides, and Proteins		
PHOTOSYNTHESIS		
Pathways of Carbon Fixation in Green Plants	I. Zelitch	44:123-45

Energy Capture in Photosynthesis: Photosystem II	R. Radmer, B. Kok	44:409-33
Photoregulation of Biologically Active Macromolecules	B. F. Erlanger	45:267-83
Energy Transduction in Chloroplasts	M. Avron	46:143-55
PREFATORY CHAPTERS		
In the Borderland Between Bioorganic Chemistry and Biochemistry	L. Růzička	42:1-20
Recollections	G. W. Beadle	43:1-13
A Fever of Reason: The Early Way	E. Chargaff	44:1-18
An Autobiography	E. A. Doisy	45:1-9
A Long View of Nitrogen Metabolism	S. Ratner	46:1-24
PROTEINS		
See Amino Acids, Peptides, and Proteins		
TRANSPORT		
Bacterial Transport	W. Boos	43:123-46
Membrane Receptors	P. Cuatrecasas	43:169-214
The Energetics of Bacterial Active Transport	R. D. Simoni, P. W. Postma	44:523-54
Biological Applications of Ionophores	B. C. Pressman	45:501-30
Endocytosis	S. C. Silverstein, R. M. Steinman, Z. A. Cohn	46:669-722
VIRUSES		
Animal RNA Viruses: Genome Structure and Function	A. J. Shatkin	43:643-65
Virus Assembly	S. Casjens, J. King	44:555-611
The Reovirus Replicative Cycle	S. C. Silverstein, J. K. Christman, G. Acs	45:375-408
Molecular Biology of Papovaviruses	G. C. Fareed, D. Davoli	46:471-522
VITAMINS, GROWTH FACTORS, ESSENTIAL METABOLITES		
Biosynthesis of Water-Soluble Vitamins	G. W. E. Plaut, C. M. Smith, W. L. Alworth	43:899-922
Biochemistry of Polyisoprenoid Biosynthesis	E. D. Beytía, J. W. Porter	45:113-42
1,4-Diaminobutane (Putrescine), Spermidine, and Spermine	C. W. Tabor, H. Tabor	45:285-306
Metabolism and Mechanism of Action of Vitamin D	H. F. DeLuca, H. K. Schnoes	45:631-66
Vitamin K-Dependent Formation of γ-Carboxyglutamic Acid	J. Stenflo, J. W. Suttie	46:157-72